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Sobolenko, T. M.

X-RAY INVESTIGATION OF SOLID SOLUTION
BREAKDOWN IN ALUMINIUM ALLOYS AFTER
QUENCHING AND DEFORMATION. [Aug 63] 7 refs.
Order from SIC \$12.00

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Metallurgiya i Toplivo, 1962, no. 3, p. 81-84.

Also available from SIC in Russian Metallurgy and Fuels, 1962, no. 3, \$68.00/year.

DESCRIPTORS: *Aluminum alloys, Deformation, Quenching (Cooling), Magnesium alloys, Zinc alloys, Solids, Solutions, X-rays, Crystal lattices.

A study was made of the breakdown of solid solutions in Al-Mg alloys (7.3% Mg) which had been quenched and deformed, and annealed at various temperatures, using (Metallurgy--Structural, TT, v. 10, no. 11) (over)

63-22393

- I. Title: Breakdown
- I. Rogel'berg, L. N.
- II. Kuznetsov, G. M.
- III. Sobolenko, T. M.
- IV. Scientific Information Consultants Ltd. (Gr. Brit.)

Office of Technical Services

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ACBIL Tr No 1064

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EEur - Germany

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Pocket Gamma Radiation Dosimeter, by M. Ardenne,
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Dozimetrii Ioniziruyushchikh Izlucheniya, 1957,
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Practical Experiences & Comments for Over-
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INVESTIGATIONS ON DETONATIVE COMBUSTION.
[1963] [38] p. 37, refs.
Order from OTS or SLA \$3.60 63-16048

Trans. of German mono. [Untersuchungen über
Klopfende Verbrennungen] Brunswick, n. d., 35p.
(PB-67864).

DESCRIPTORS: *Combustion, *Detonations,
*Autoignition, Ignition lag, Pressure, Graphic analysis,
Fuels.

The exact course of the pressure during the compression
and autoignition processes is determined and the
ignition delay in a region of temperature and pressure
is measured corresponding to the conditions prevailing
in the unburned residue in an engine.

(Materials--Fuels, TT, v. 10, no. 8)

63-16048

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II. PB-67864

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The "Brodoprojekt" Ship Designing Organization,
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JPRS 3063

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In Connection With the Origin of the Domesticated
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Absorption, by Ts. N. Roginskaya, A. I.
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D. L. Buehler, W. H. Veenendaal, 5 pp.
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pp. 219-227.

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Rev Phys - Crystal
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JPRS 13285

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L. Ya. Roginskiy.

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From the viewpoint of Statistics
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CHARGES. III. INVESTIGATION OF THE HETERO-
GENEOUS RECOMBINATION OF ATOMS (Chemische
Reaktionen in Elektrischen Entladungen. III. Unter-
suchung der Heterogenen Rekombination von Atom) tr.
by Jerome Danburg. Oct 62 [20]p. 9 refs. AmMetSoc
T-G-186.

Order from OTS or SLA \$1.60

63-19207

Trans. of Acta Physicochimica U. R. S. S., 1937, v. 6,
no. 3, p. 401-418.

DESCRIPTORS: *Electrical discharges, *Chemical
reactions, *Recombination reactions, *Hydrogen,
*Nitrogen, *Oxygen, *Platinum catalysts, *Tungsten,
*Argon, Stabilization, Metals, Oxides, Surfaces

The recombination of hydrogen and nitrogen atoms on
Pt and W over a wide range of temperature was investi-
(Chemistry--Physical, TT, v. 10, no. 2) (over)

63-19207

- I. Roginski, S.
- II. Schechter, A.
- III. AmMetSoc-T-G-186
- IV. American Meteorological
Society, Boston, Mass.
- V. Contract AF-19(604)6113
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Roginski, S. and Tsellinskaya, T.
EXPERIMENTAL INVESTIGATION OF THE ROLE OF
SUPERSATURATION IN THE PREPARATION OF
CATALYSTS. [1961] 7p. 40 refs.
Order from OTS or SLA \$1.10

61-18172

Trans. of Acta Physicochimica U. R. S. S., 1944,
v. 19, p. 225-247.

DESCRIPTORS: *Nickel catalysts, Nickel compounds,
Oxides, Carbonates, Decomposition.

The decomposition of nickel carbonate is shown to
proceed as an autocatalytic process. The reaction
velocity increases with rising reaction supersaturation.
An extremely rapid decay of carbonate is observed at
partial pressures of carbon dioxide from 10^{-4} to 10^{-2}
mm Hg. and a rather slow one near equilibrium. It is
shown that the values of the reciprocals of the lapse of
time, necessary to reach a certain degree of decompo-
(Chemistry-Physical, TT, v. 6, no. 7) (over)

61-18172

I. Roginski, S.
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Office of Technical Services

Preparation de Concentrates de Cesium Radioactif
avec Emploi de Colonnes de Glauconite Exchangeable
Cations, by S. Z. Roginskiy, O. V. Altschuler,
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RUSSIAN to FRENCH, per, Radiophis, Vol II, No 4,
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Roginskii, S. Z.
ELECTRONIC FACTORS IN CATALYSIS. Report submitted to the International Congress on Catalysis (no. 2). [1961] [20]p. 60 refs. [DSIR LLU] M. 3126.
Order from OTS or SLA \$1.60 61-27601

Trans. of Kinetika i Kataliz (USSR) 1960, v. 1, no. 1, p. 15-31.

DESCRIPTORS: *Catalysis, *Electrochemistry, Electronics, Catalysts, Semiconductors, Adsorption, Surface properties.

It is shown for a series of catalysts that the change in catalytic properties due to added substances is a function of the surface charge and that the accompanying changes in the activation energies for catalysis and chemisorption, E_{cat} and E_{chem} are directly associated with changes in the ionization potential. Relations are (Chemistry--Physical, TT, v. 6, no. 9) (over)

61-27601

I. Roginskii, S. Z.
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III. Title: International...

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Rational Basis of the Selection of Catalysts.
Communication 2. Physical and Physicochemical
Catalysis; by S. Z. Roginskii; 10 pp.

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INVESTIGATIONS OF THE HETEROGENEITY OF ACTIVE
SURFACES BY THE DIFFERENTIAL ISOTOPE METHOD,
BY N. P. MEIER, S. Z. ROZHENIY.

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TEKH, NO 1, 1950, PP 27-38.

ALL RFS 2059

SCI - CHEM

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Prolov, O. V. Krylov, S. N. Roginskiy, 8 pp.

RUSSIAN, per, Problemy Kinetika i Katal, No 10,
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AEC Tr-4979

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Roginskiy, S. Z.

KINETICS OF CATALYSIS BY SEMICONDUCTORS
DURING CONTROL BY CHEMISORPTION. [1960]

Sp. 13 refs.

Order from LC or SLA mi\$1.80, ph\$1.80 60-16891

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1959,
v. 126 [no. 4] p. 817-820.

An examination is made of kinetics without assuming
(1) the presence of contamination conductivity in
catalysts or (2) participation in chemisorption and
catalysis of only the free current carriers--holes and
electrons.

(Chemistry--Physical, TT, v. 5, no. 12)

60-16891

1. Catalysis--Theory
2. Semiconductors--Catalytic properties
1. Roginskiy, S. Z.

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Catalytic Oxidation of Propylene to Acrolein. I,
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Possible Explanation of Anomalous Biological Isotopic
Effects Observed in D_2O^{16} ; and H_2O^{18} , by
S. Z. Roginskij, S. E. Shnol', 3 pp.

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The 183 Minutes of Envelope Exchange, Average
Exchange Under Dynamic Conditions, by J. B.
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JPRS 2501

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